



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/25/2004

Himanshu S. Amin Amin & Turocy, LLP 24th Floor, National City Center 1900 E. 9th Street Cleveland, OH 44114

EXAMINER		
RUTLEDGE	, DELLA J	
ART UNIT	PAPER NUMBER	

2851 DATE MAILED: 02/25/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/050,471	01/16/2002	Cyrus E. Tabery	G0249	6128

TITLE OF INVENTION: SYSTEM AND METHOD FOR DEVELOPER ENDPOINT DETECTION BY REFLECTOMETRY OR SCATTEROMETRY

AP	PLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nor	provisional	NO	\$1330	\$0	\$1330	05/25/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless corrected maintenance fee notification	below or directed otherwise i	in Block 1, by (a) specifying	ng a new correspondence addre	ss; and/or (b) indicating a sep	arate "FEE ADDRESS" for
	E ADDRESS (Note: Legibly mark-up	with any corrections or use Block 1)	Note: A certificate	of mailing can only be used f	or domestic mailings of the
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7:	590 02/25/2004		have its own certific	ate of mailing or transmission.	on or rounar drawing, mus
Himanshu S. Am	in		C	Certificate of Mailing or Tran	smission
Amin & Turocy, L	LP		I hereby certify that	this Fee(s) Transmittal is being with sufficient postage for fi- lail Stop ISSUE FEE address	ng deposited with the United
24th Floor, Nationa	al City Center		addressed to the M	Iail Stop ISSUE FEE address	above, or being facsimile
1900 E. 9th Street			transmitted to the U	SPTO, on the date indicated be	
Cleveland, OH 441	114				(Depositor's name)
					(Signature)
					(Date)
APPLICATION NO.	FILING DATE	FIRST NAI	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,471	01/16/2002	Cyru	s E. Tabery	G0249	6128
TITLE OF INVENTION: S	YSTEM AND METHOD FO	R DEVELOPER ENDPOIN	T DETECTION BY REFLECT	OMETRY OR SCATTEROM	ETRY
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/25/2004
EXAM	4INER	ART UNIT	CLASS-SUBCLASS	一	
RUTLEDG	E, DELLA J	2851	396-569000	_	
1. Change of correspondence	e address or indication of "Fe	e Address" (37 2. For	printing on the patent front pag	ge, list (1) the	
CFR 1.363).			of up to 3 registered patent		
☐ Change of correspond Address form PTO/SB/1	ence address (or Change of Co		OR, alternatively, (2) the name naving as a member a registere		
	ion (or "Fee Address" Indicati	agent)	and the names of up to 2 reg	istered patent	
PTO/SB/47; Rev 03-02 Number is required.	or more recent) attached. Use	of a Customer alloring	ys or agents. If no name is lis printed.	ted, no name 3	
3. ASSIGNEE NAME AND	RESIDENCE DATA TO BI	PRINTED ON THE PATI	ENT (print or type)		
PLEASE NOTE: Unless	an assignee is identified belo	ow, no assignee data will ap	ppear on the patent. Inclusion of er. Completion of this form is N	assignee data is only appropri	iate when an assignment has
(A) NAME OF ASSIGN			er. Completion of this form is N ENCE: (CITY and STATE OR C		signment.
(A) NAME OF ASSIGN	EE	(B) KESIDE	INCE. (CITT and STATE OR C	OUNTRI)	
Please check the appropriate	e assignee category or categor	ies (will not be printed on th	ne patent); 🔲 individual 🚨	corporation or other private g	group entity 🚨 governmen
4a. The following fee(s) are	enclosed:	4b. Payment	t of Fee(s):	· · · · · · · · · · · · · · · · · · ·	
☐ Issue Fee		☐ A chec	ck in the amount of the fee(s) is	enclosed.	
☐ Publication Fee		☐ Payme	ent by credit card. Form PTO-20	38 is attached.	
☐ Advance Order - # of	Copies	The D	Director is hereby authorized by Account Number	charge the required fee(s), or (enclose an extra	credit any overpayment, to
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	sica to apply the issue i ce an		- to re-appry uny previousty part	a issue fee to the application to	entified above.
(Authorized Signature)		(Date)			
NOTE: The Iccue Fee on	d Publication Fee (if require	d) will not be accepted fro	om anyone		
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This collection of information obtain or retain a benefit	ation is required by 37 CFR by the public which is to fil y is governed by 35 U.S.C. 12	1.311. The information is to a (and by the USPTO to n	required to process) an		
application. Confidentialit estimated to take 12 minutes	y is governed by 35 U.S.C. 12	22 and 37 CFR 1.14. This co	ollection is mitting the		
completed application for	m to the USPTO. Time will	vary depending upon the	individual		
suggestions for reducing	this burden, should be sent t	the Chief Information Of	ficer, U.S.		
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10/050,471	01/16/2002	Cyrus E. Tabery	G0249	G0249 6128
75	90 02/25/2004		EXAM	INER
Himanshu S. Amin		RUTLEDGE	RUTLEDGE, DELLA J	
Amin & Turocy, Ll			ARTIBUT	PAPER NUMBER
24th Floor, Nationa	ıl City Center		ART UNIT	PAPER NUMBER
1900 E. 9th Street			2851	
Cleveland, OH 44114		DATE MAILED: 02/25/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	10/050,471	TABERY ET AL.			
Notice of Allowability	Examiner	Art Unit			
	D. Rutledge	2851	pw		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. This communication is responsive to to the Amendment file	ed 23 January 2004.				
2. The allowed claim(s) is/are <u>1-30</u> .	•				
3. \boxtimes The drawings filed on <u>16 January 2002</u> are accepted by the	e Examiner.				
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements		
5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give			OTICE OF		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		-948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			back) of		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 8), 7. Examiner's Amend 8. Examiner's Statem 9. Other	r (PTO-413), te : ment/Comment			

DETAILED ACTION

Non-Elected Claims

1. Non-elected Claims 20 – 28 have been examined and found allowable.

Allowable Subject Matter

- 2. Claims 1 30 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the prior art does not teach at least the features of partitioning the wafer into one or more portion, fabricating one or more grating on the wafer, collecting, measuring and computing one or more adjustment for one or more development components by comparing critical dimensions to scatterometry signatures as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell Adams can be reached on (571) 272-2851. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/050,471

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutledge Primary Examiner Art Unit 2851

dr 2/19/04